CIO Information session October 20, 2004



State of Iowa Centralization Impact Assessment

"Developing a Responsive and Agile Organization"



What are the Information Session Objectives

Session Objectives:

- Provide an update to the CIO Council with the latest Assessment status, models and thinking
- Offer an Opportunity to Provide Feedback into the process (Wes as the focus ~ wes.hunsberger@iowa.gov)

CIO Council role:

- Gain engagement perspectives
- Provide feedback

Outcomes and Next Steps:

- Receive CIO Council and AFSCME input by Oct 27th
- Consolidate appropriate information into recommendations
- Final Draft results to FIP Committee Nov 5th
- Final Report and Recommendations December 1st



Introduction and Agenda

- Current Project Status
- Organizational Trends
- Process Recommendations Updated
- Process Model Review
- Organizational Model Review
- Provide input by Oct 27th
- Next Steps



What are the Objectives of House File 534

- How can investments in technology add Maximum Value to the State?
- How can we increase cost effectiveness on a statewide basis?
- How can we provide a greater focus on the core mission of the State?
- How can we effectively manage Scarce Resources and improve service delivery?



Assessment Roadmap

- What We found
- How we analyzed the findings
- Resulting in specific conclusions for Iowa



Major Methods & Tools Utilized



Assessment Methods and Process

- What did we look at
 - Business Architecture
 - Information Architecture
 - Relationship Architecture
- How did we find it
 - Critical Success Factor Interviews (CSF's)
 - Value Perception Survey
 - Operational Maturity Assessment (CoBIT, ITIL and IT Standards Org)
 - Financial Perspectives (Research, Document reviews, surveys)
 - Coeur Research and benchmarks
- How did we analyze the information
 - Proven Methods
 - Models
 - Tools
 - Statistical analysis
 - Empirical evidence
 - Factual evidence
 - Observational aspects







Value Perceptions



What is The Value of Information Technology?

Business

Firm Grasp of IT Business Value
Position Role and Use of IT within Business
Respond to Competitive Technology Opportunities or Threats
Time Critical Deployment of IT
Develop and Maintain Competitive IT Capability
Continual IT Business Alignment

Leadership

Establish and Align Expectations for IT
Reskill IT Personnel to be Business Literate
Establish and Maintain IT Processes
Promote and Drive IT Value Initiatives
Manage Change and Culture Issues
Measure and Communicate Value of IT



Technology

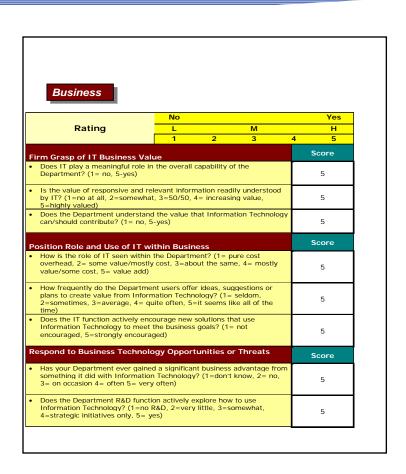
Deploy and Maintain Applications
Establish Stable and Reliable Operations
Deploy & Maintain Infrastructure
Establish and Maintain Sourcing Strategies
Manage Technology Obsolescence
Manage Critical Risks



Management Perceptions of IT Value

Value of IT Assessment

- Executive Views & Perceptions
- ➤ IT and ITE Views and Perceptions
- Gap Analysis
- "Best Actions to Best Practices"



Defined an Immediate Business Value Agenda



Agility and Organization Effectiveness Perceptions

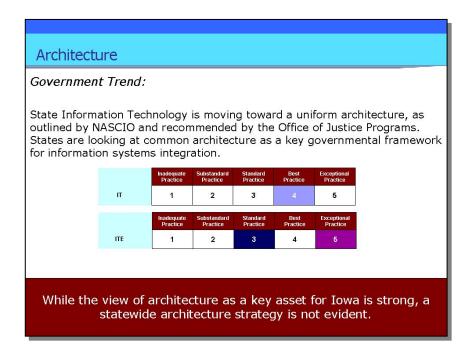
Scorecard Item	Inadequate Practice	Sub- standard Practice	Standard Practice	Best Practice	Exceptional Practice
ITD Business Alignment and Relationship Management	1	2	3	4	5
	Executive=			ITE=	
Firm Grasp of IT Business Value					
 Does IT play a meaningful role in the overall capability of the Department? (1= no, 5-yes) 			3		
• Is the value of responsive and relevant information readily understood by IT? (1=no at all, 2=somewhat, 3=50/50, 4=increasing value, 5=highly valued)			3		
 Does the Department understand the value that Information Technology can/should contribute? (1= no, 5-yes) 			3	4	
Position Role and Use of IT within Business					
 How is the role of IT seen within the Department? (1= pure cost overhead, 2= some value/mostly cost, 3=about the same, 4= mostly value/some cost, 5= value add) 			3		
 How frequently do the Department users offer ideas, suggestions or plans to create value from Information Technology? (1= seldom, 2=sometimes, 3=average, 4= quite often, 5=it seems like all of the time) 		2	3		
 Does the IT function actively encourage new solutions that use Information Technology to meet the business goals? (1= not encouraged, 5=strongly encouraged) 		2	3		



Top 10 Critical Gaps need to be addressed and closed

- Project Management & Service Delivery
- Require a Technology Architecture
- Total Cost of Ownership
- IT/Depart Align and Planning
- Business Acumen & CRM Interaction
- Sourcing Strategy & Supplier Mgt.
- Reporting & Measurements of IT Value
- Asset Inventory and Spend Analysis
- Training and Learning Workforce
- Business Recovery and Issue Mgt.

Closing the Gaps With Departments







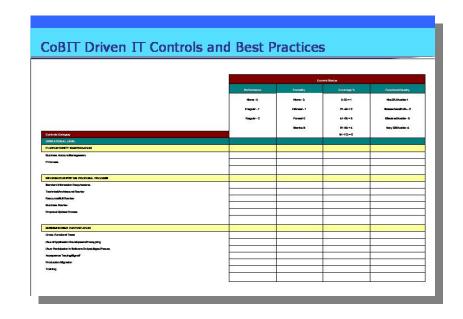
Operational Maturity Operations Master



Operational Capability & Maturity Levels

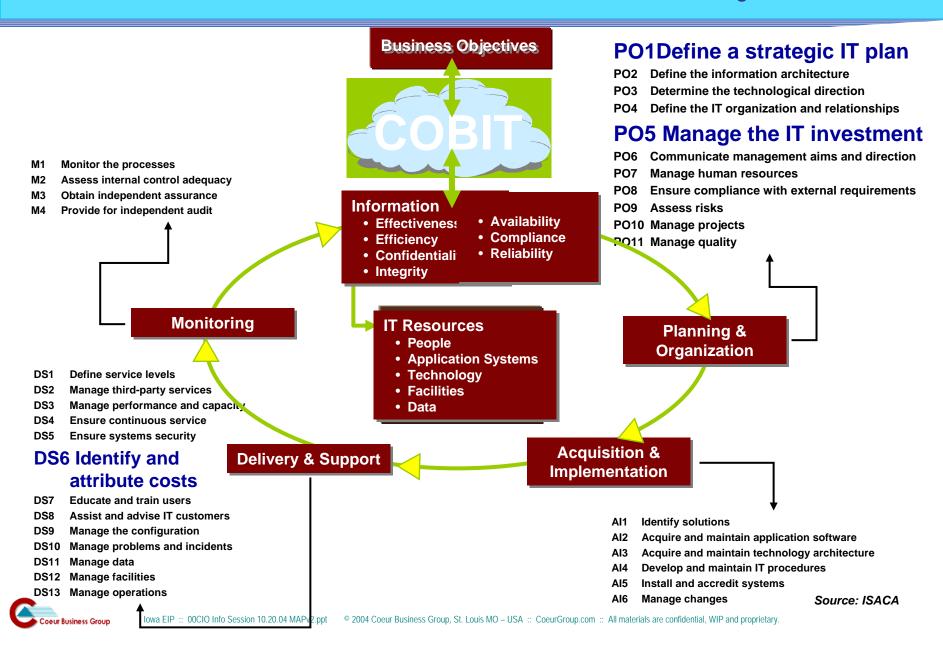
- Based on COBIT (Control Objectives for IT)
- 8 Operational Best Practice Areas
- 318 Control Categories
- Scoring based on an extrapolation of self assessment
- Develops Maturity Levels and Operational Capability scores





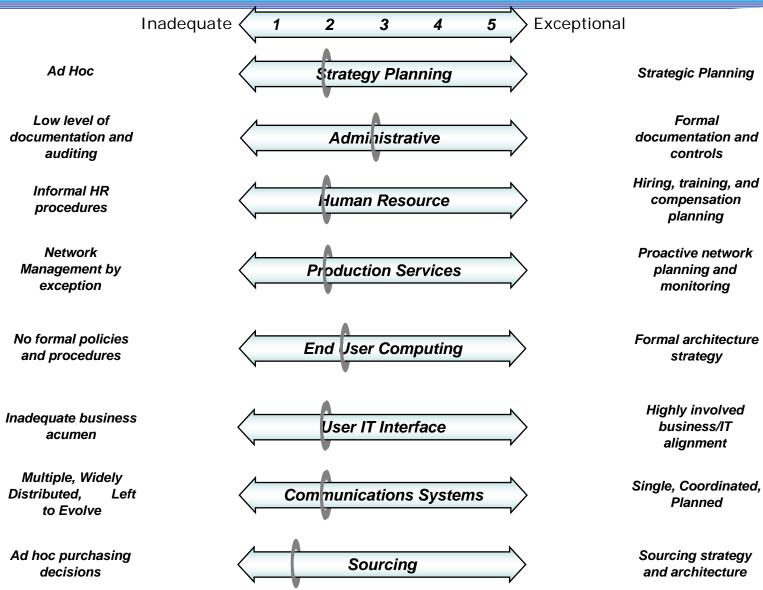


COBIT Model: Four Domains and Control Objectives



Operational Maturity Levels

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Strategy Formulation & Planning

Key Observations:

A Statewide Strategy and Planning process is not evident.



Business Alignment Strategy

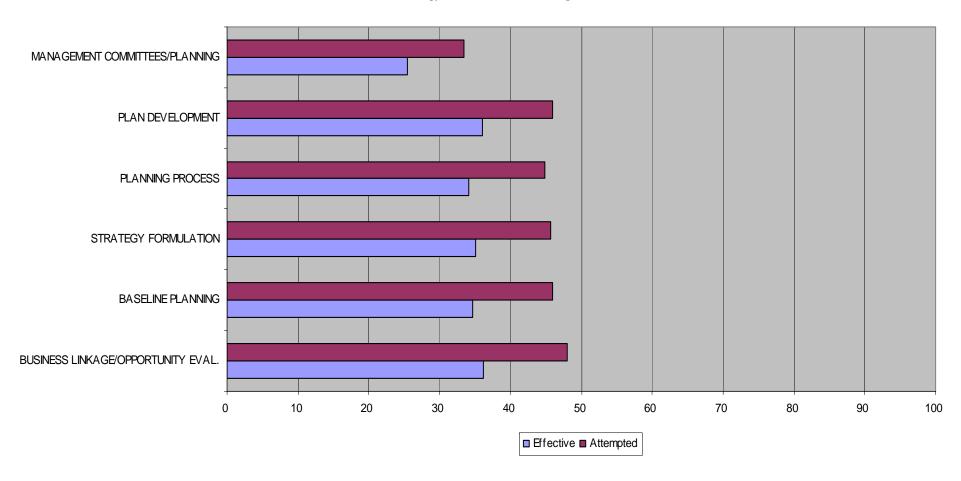
Implication:

Without a Statewide IT Strategic Planning process, there will be a high potential for misalignment to the Governor's vision and, most importantly, Departmental and Constituent expectations.



Strategy Formulation & Planning

Strategy Formulation & Planning





Department	Strategy Formulation and Planning	Administrative Management	Human Resources Management	Production Services Management	EUC Management Practices	User and IT Interface Management	Communications System Management	Sourcing		
Large	46.27	70.18	58.13	63.03	55.79	46.32	58.27	49.68		
	72.48	71.78	56.73	64.31	73.31	67.40	64.52	60.23		
	33.47	24.46	26.41	26.42	29.99	26.61	26.42	18.82		
	98.83	100.00	96.75	96.42	98.92	100.00	90.14	100.00		
	36.20	64.26	56.34	34.35	32.35	25.74	27.98	46.20		
	70.59	70.14	55.40	73.77	58.10	58.98	80.94	64.51		
	59.50	76.21	54.93	77.58	66.06	68.54	64.95	59.56		
	90.36	95.88	87.79	88.29	87.98	90.40	95.60	84.69		
Medium	63.23	75.28	41.92	50.11	60.53	67.45	59.10	37.54		
	12.53	15.12	11.26	12.65	20.94	14.30	13.66	11.24		
	41.96	49.48	45.10	65.34	72.61	43.69	45.46	27.25		
	86.22	91.99	83.62	62.43	83.46	87.40	65.34	79.26		
	40.40	52.89	61.37	63.83	59.22	21.87	51.51	68.26		
	42.61	25.43	9.49	12.56	2.30	7.78	33.60	24.69		
	33.43	67.91	44.68	38.75	48.30	44.13	32.81	32.18		
	83.27	69.64	67.41	63.47	69.37	66.00	55.33	59.29		
	8.68	21.18	5.00	10.30	15.79	0.00	18.61	0.00		
	31.68	33.69	24.34	30.26	45.12	32.31	28.30	20.53		
Small	20.88	32.44	37.16	30.49	54.53	36.64	50.66	13.81		
	17.61	15.53	20.02	20.39	18.83	8.96	8.33	0.00		
	14.69	23.07	18.10	20.62	12.09	5.35	5.57	0.00		
	32.65	44.25	29.96	21.22	22.64	5.98	25.41	13.82		
	34.05	39.05	25.07	27.94	39.09	31.90	39.72	34.65		
	100.00	100.00	81.58	61.86	88.00	88.00	19.56	0.00		
	32.00	34.22	20.23	31.18	27.74	31.53	21.02	2.44		
	6.84	13.10	20.46	15.89	17.89	0.37	2.77	0.00		
	37.36	69.17	28.88	21.92	40.28	0.00	0.00	15.02		
	23.11	75.44	28.92	39.55	61.93	25.32	14.65	26.99		
	4.60	12.84	0.98	4.73	9.58	0.00	4.44	0.00		
	21.69	52.48	19.59	22.07	37.26	8.44	6.36	14.00		
lowa EIP Assessment :: EIP 10.15.04 Final © 2004 Coeur Business Group, St. Louis MO – USA :: coeurgroup.com :: All materials are confidential and proprietary.										

Multi Dimensional Analysis



Business/IT Alignment

examines the overall business strategy, executive commitment, business case for the initiative, the IT strategy, and the current state of business and IT alignment.

Governance and Control

considers two key elements: Governance – the tools and techniques used to prioritize initiatives and allocate resources across the enterprise, and Control – the tools and techniques used to manage and control the program initiative.

Human Capital Management

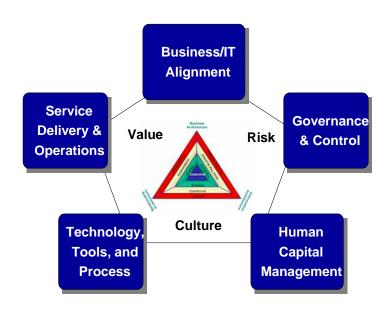
examines organizational and personnel considerations, including organization structures, culture, readiness, training, and alignment of roles, responsibilities, and incentives with objectives.

Technology and Tools

examines the technology solution: enterprise architecture, information architecture, technical architecture and infrastructure, application architecture, behavioral characteristics, and tools and standards for application delivery.

Service Delivery and Operations

examines the tools and processes installed to support ongoing operations.



An Analysis of the Critical Factors Effecting the EIP Assessment Areas



Evaluation Elements Requiring Organizational Improvements

Business/IT Alignment

Governance & Control

Human Capital Management

Technology,
Tools, & Process

Service Delivery & Operations

Strategy, Vision & Goals

Business Case and Risk

Business Processes & Regts

Governance Model Information Policy Methodologies

Organization Structure
Organizational Readiness
Functional Competencies

Architectures and Standards
Process/Tool Mapping
Product Viability

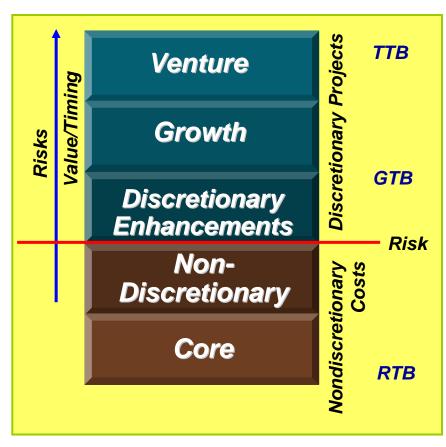
Enterprise Systems Mgmt
Service Level Mgmt

- Executive Commitment/CSFs
- Business/IT Relationship
- Communication Plans
- Program Mgmt
- Budget & Resource Mgmt
- Statement of Work
- Training
- Knowledge Transfer
- Application Delivery
- Infrastructure Engineering
- Behavioral Characteristics
- Sourcing/Vendor Mgmt
- Contracts



Prioritization and Value Categorization

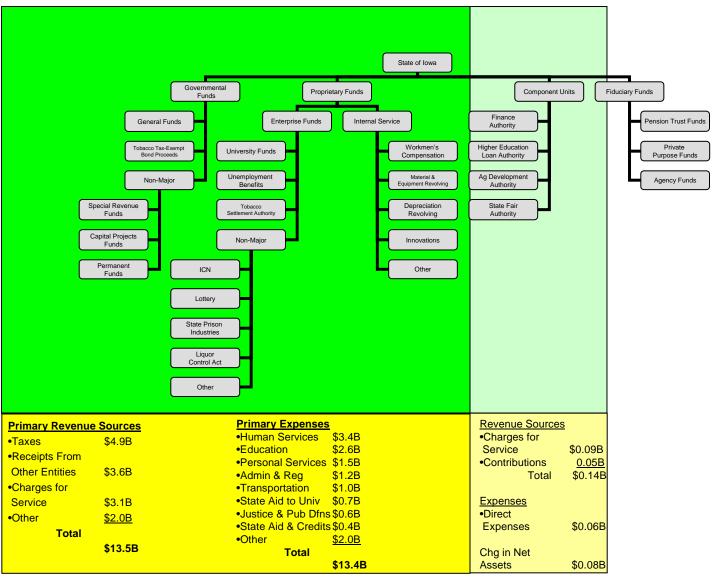
Technology Investment Portfolio



The IT Organization As a Whole
Has Inadequate Processes to Define,
Track and Manage the Budget
Process in a Standardized Fashion.



Iowa Fund Structure

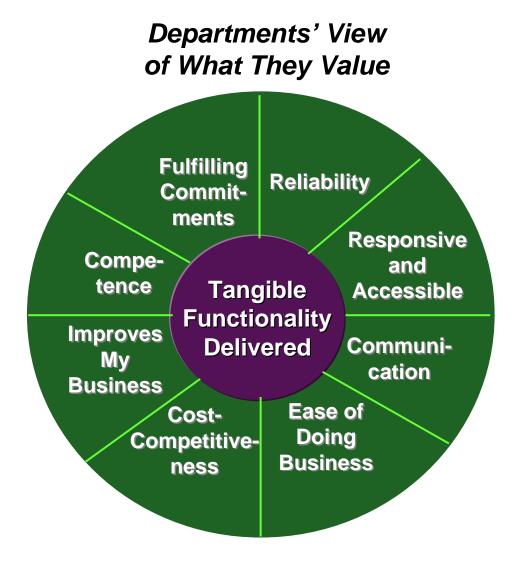




Executive Vision and Business Drivers



Common Vision Requirements for Information Technology



Iowa Common Business Drivers

- 1. Security
 - 1. User access
 - 2. Homeland Security
 - 3. Intrusion Detection
- 2. Data Management
 - 1. Integrity
 - 2. Accessibility
 - 3. Storage
- 3. Regulatory
 - 1. Compliance
 - 2. Federal /State Programs

- 4. Cost Management
 - 1. Effectiveness/Efficiencies
 - 2. Avoidance
- 5. Service Delivery
 - 1. Problem Management
 - 2. Change Management
 - 3. Service Level Agreements
- 6. Business/Constituent Alignment
 - 1. Funding Process
 - 2. Constituency Alignment
 - 3. Strategic Focus



Of Note

- Over 500 Technology Based Vendors Statewide
- Nearly 400 Technology Based Vendors for the EIP Study
- 80% of IT Vendor Spend Is With 30 Vendors
- Vendors Not Being Managed to Performance Metrics
- Vendor Relationships Are Not Being Leveraged Across Departments
- Projected Significant Savings Potential Over Three Year Life Cycle
 With Proper Vendor Management Practices in Place



First Strikes in Consolidation



Top Consolidation Program Winners

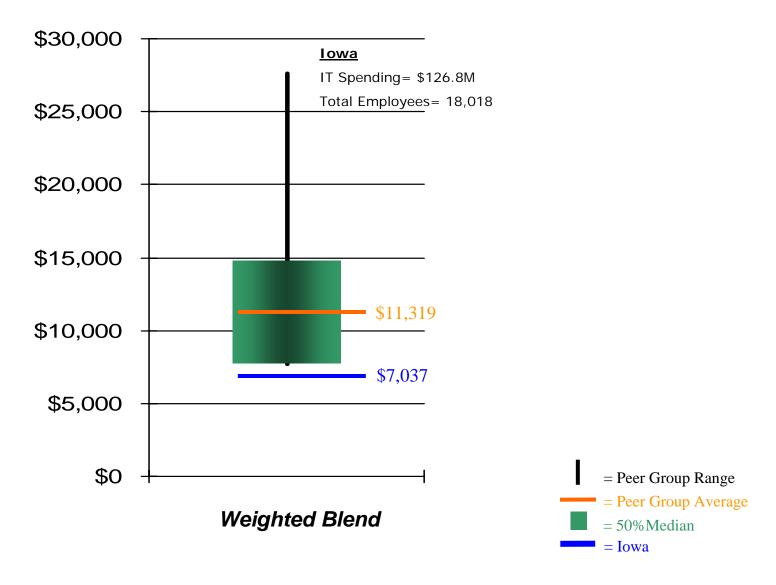
- Governance Process (control investments to standards)
- Vendor Performance Management (value based contracts)
- Data Center Consolidation (backup and disaster recovery)
- Common Statewide Infrastructure
- Network Consolidation
- Application Consolidation Initiative (full inventory first)
- Telecommunications Utility (utilize statewide)
- Desktop Life cycle (spend to standards, cascade)
- Procurement Processes (commodity buys, web buy type)
- Defined Architecture for Project Procurements



Process and Cost Impacts

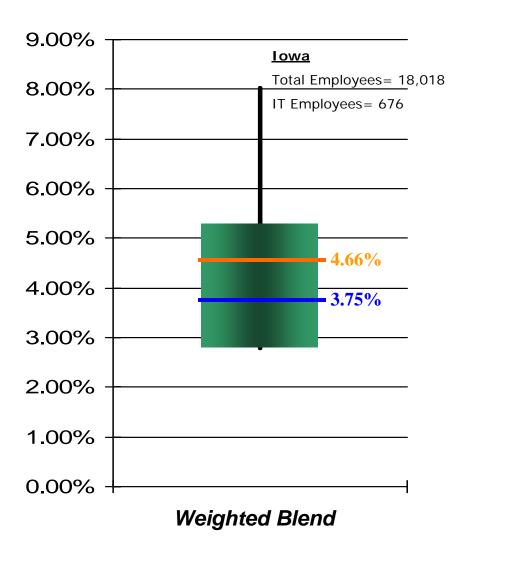


2003 IT Spending Per Employee





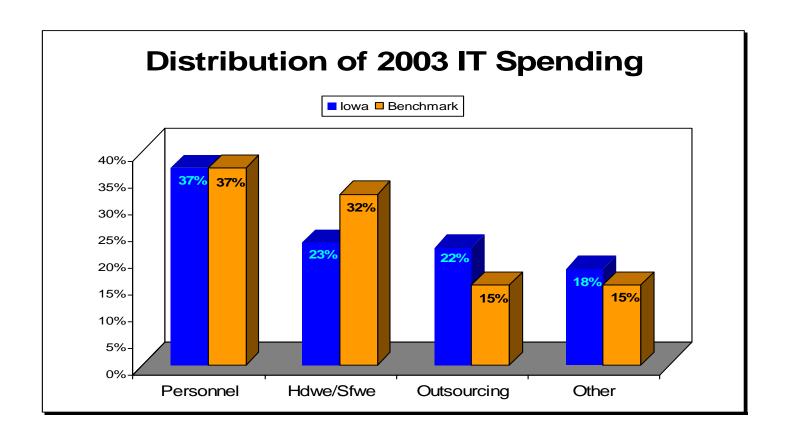
Percent of Employees Dedicated to IT







2003 IT Spending





Organizational Trends



Forces That Are Reshaping State Government in Iowa at an Unprecedented Rate

Cultural Drivers

- Long Term Employees
- Departmental Focus
- Compartmentalized but a need to collaborate

Technology Drivers

- Need for Speed and Access Across the State
- Unprecedented rates of technological change (Techtonics) driving implementation costs
- Standardization back in vogue to drive out costs
- People skills mastery becoming the biggest resource constraint
- E-Government

Business Drivers

- Regulatory/Compliance
- Data Management (Protection of Data)
- Secure Access to Information
- Cost Effectiveness
- Service Delivery Value
- Business Alignment



The Business Strategy Drives Implications for IT Across the Classic Dimensions

Department Regulatory Data Cost Service **Business** Security Management Control **Delivery** Compliance Alignment Best Practice, high quality IT processes **Process** • Well defined & architected information flows • Meaningful metrics, tied to performance, clearly communicated Information State's **Technology Strategy** Planned architecture • High performing production environment Appropriate investment in supporting • Enabling culture tools and technologies Appropriate skills • Planned career development Organization • Aligned incentives & Performance



Organization Change Principles



8 Guiding Principles for IT Reorganization/Centralization

1. Creating & enabling leadership at every level:

Senior personnel must lead to clarify ambiguity, decide with imperfect information, achieve progress amid numerous distractions, build trust among strangers, and enhance team communication among individuals.

2. Becoming technically astute:

Periodic experiments, prototypes, and speculative, analytical configurations test an organization's ability to detect vaporware (false IT products) and re-engineer systems.

3. Creating an information sharing culture:

Senior IT staff members reinforce that complex solutions are best solved by collaborative performances.

4. Developing rapid learning:

The pace of technology change and application requires constant and continual learning.

5. Encouraging and rewarding prudent risk-taking:

Change is inherently risky; encourage sensible risk taking with the understanding that some failures are bound to occur.

6. Focusing on business relationship management:

Although agile ITOs have cultures of awareness, learning, and information sharing, knowledgeable ITOs stay dynamically aligned with their lines of business (LOBs). CIOs recognize business's changing nature, appoint specialists (BRMs) to facilitate close business/IT relationships,

7. Gaining relentless execution:

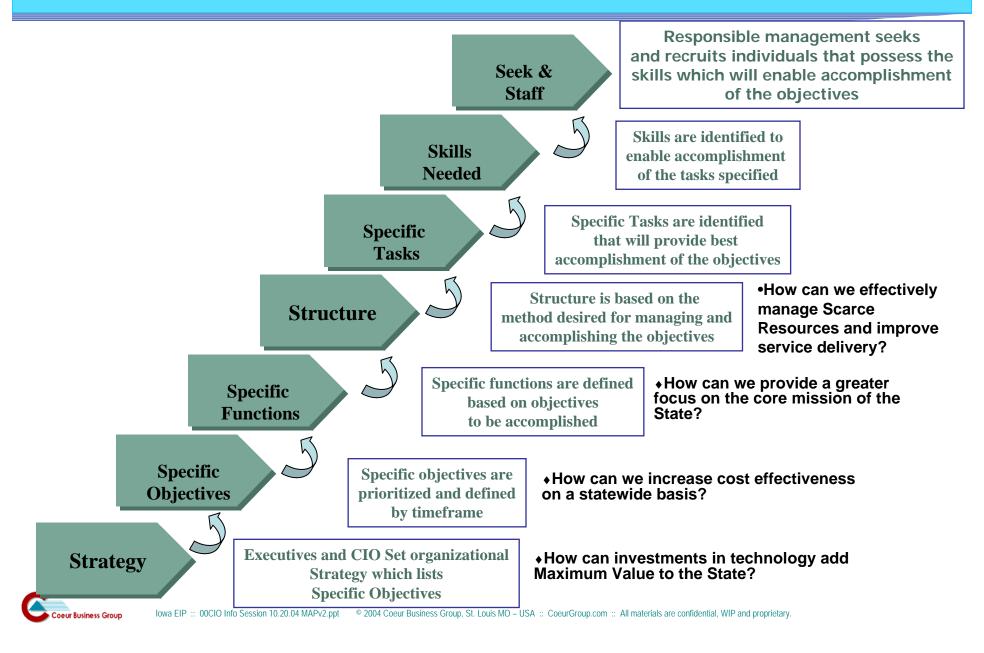
High-performance ITOs meet their financial, process, employee, operations, transition, portfolio, and risk commitments and expectations on time and on budget.

8. Having meaningful measures of work:

Multivariable metrics (money, time, resource improvement, maturity, increased customer satisfaction, etc.) must be used to comprehensively capture and communicate progress and value.



7 Steps of Organization Change



Process First



The Departmental Business Strategy Drives Implications for IT Across the Classic Dimensions

Department Regulatory Data Cost Service **Business** Security Management Control Delivery Compliance Alignment Best Practice, high quality IT processes **Process** Well defined & architected information flows • Meaningful metrics, tied to performance, clearly communicated Information State's **Technology Strategy** Planned architecture • High performing production environment Appropriate investment in supporting • Enabling culture tools and technologies Appropriate skills Collaborative and leveraged • Planned career development Organization Aligned incentives & Performance Innovative Culture



What Are The Objectives Of House File 534

- How Can Investments In Technology Add Maximum Value To The State?
- How Can We Increase Cost Effectiveness On A Statewide Basis?
- How Can We Provide A Greater Focus On The Core Mission Of The State?

 How Can We Effectively Manage Scarce Resources And Improve Service Delivery?



Process Recommendations

Initiate A Statewide Investment Governance Process And Structure

(Technology investment decisions based on business drivers in support of customer requirements)

Develop A Statewide Architecture Strategy

(Drives technology and infrastructure standards and aids in establishment of a statewide information policy)

Develop A Sourcing Strategy

(A sourcing strategy defines vendor partnering relationships based on product and services as well as performance measures and denotes changes in procurement processes to drive critical efficiencies for dealing with suppliers and purchase of standards including spend audit and control)

Develop A Program Management Office

(Provides for successful management of mission critical projects and initiatives from an enterprise perspective. Develops a standard project management approach to maximize the use of subject matter expertise across the enterprise)

Create A Customer Relationship Management Focus

(Create and implement an effective customer relationship model to ensure departmental and technology alignment)

Develop Process Controls To Increase Workforce Skills And Utilization



Process Model Review

Investment Governance Model Enterprise Architecture Model Client Relationship Model



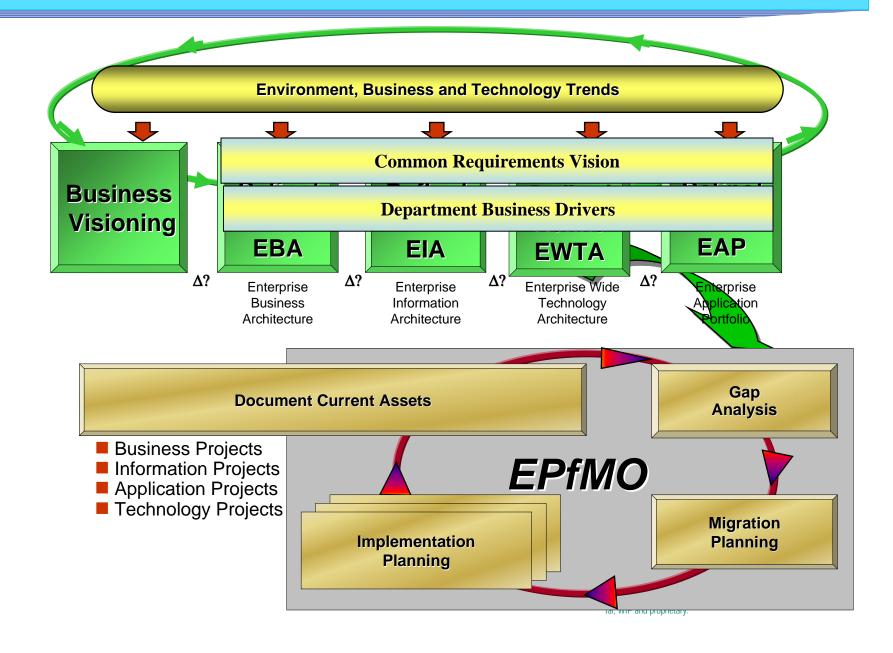
IT Governance Model

IT Governance Model

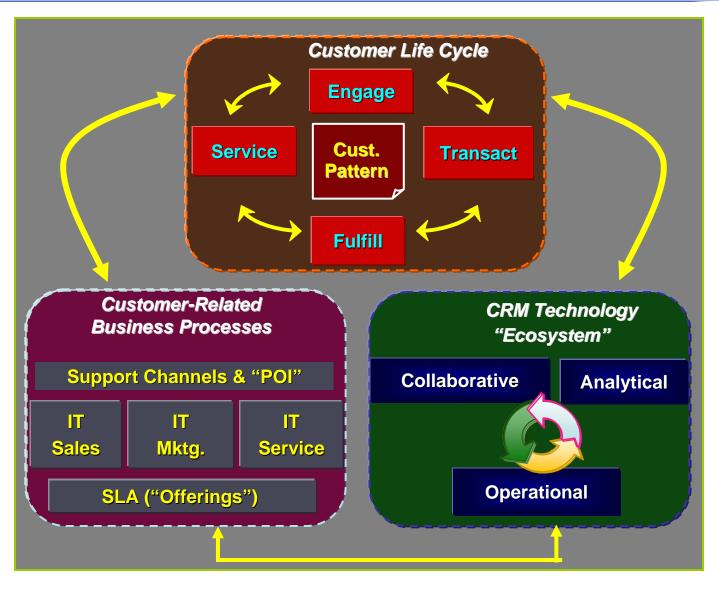
Enterprise-wide IT Governance Intra-Dept Governance Process Admin IT Governance Board **Executive** Support (Business Owners) Committee **Dept Executive** Management Project Approve/Reject Steering Proposals Approve/ **EPfMO** Proposals **Dept Process Owners** Businese **Prioritized Dept Product and** (Business or IT **Initiatives** Info. Service Owners Operations) **Policy** Business / **Alternatives Business** Info. Requests Requests Case/ and Costs Request **Policy Benefits Application Developers** IT IT Relationship User Services Managers Requests **Project** and Infrastructure Support Support Task Requests **Force** IT **Approved Projects**



Enterprise Architecture Development Model

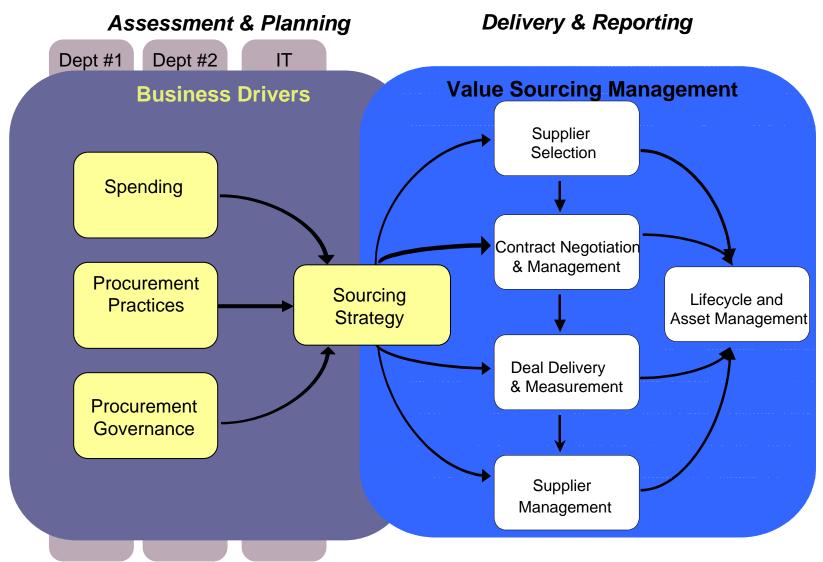


Customer Relationship Model



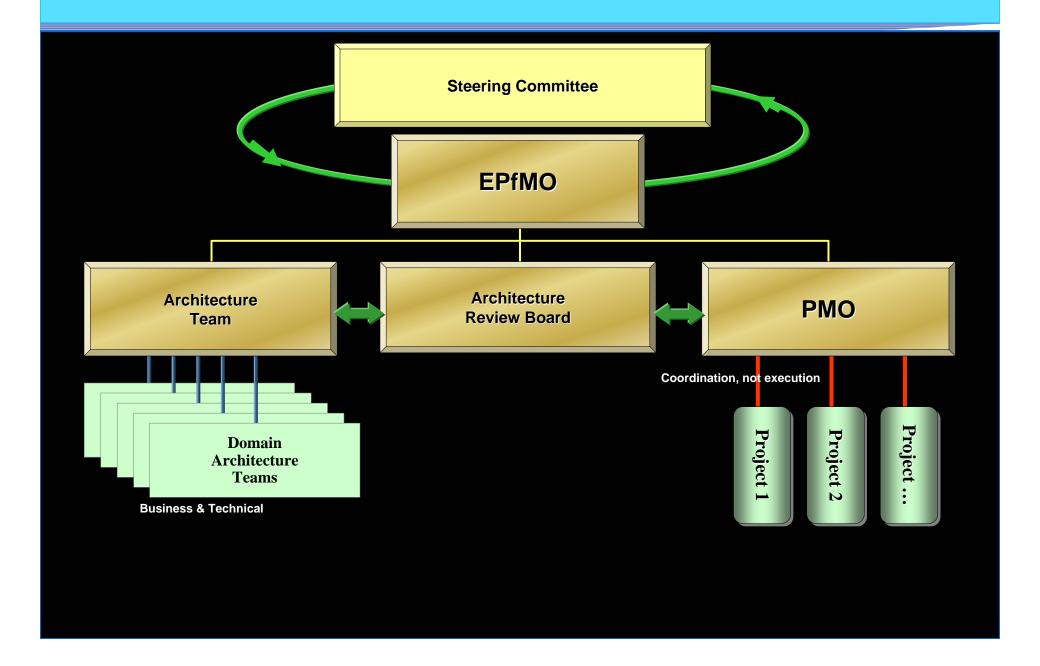


Value Sourcing Framework Roadmap





Enterprise Governance Model & Key Relationships

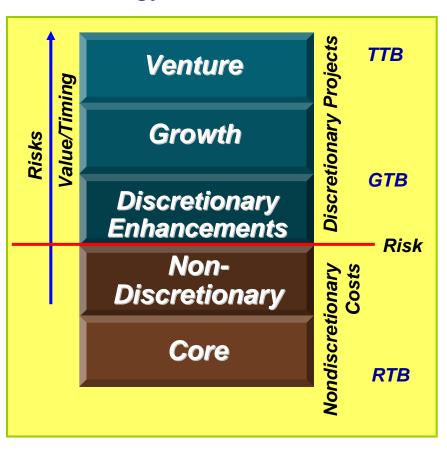


Organization Structures



Prioritization and Value Categorization

Technology Investment Portfolio





What are the Objectives

- Maximize Investments In Technology And Add Value To The State
- Increase Cost Effectiveness On A Statewide Basis
- Provide A Greater Focus On The Core Mission Of The State
- Effectively Manage Scarce Resources And Improve Service Delivery



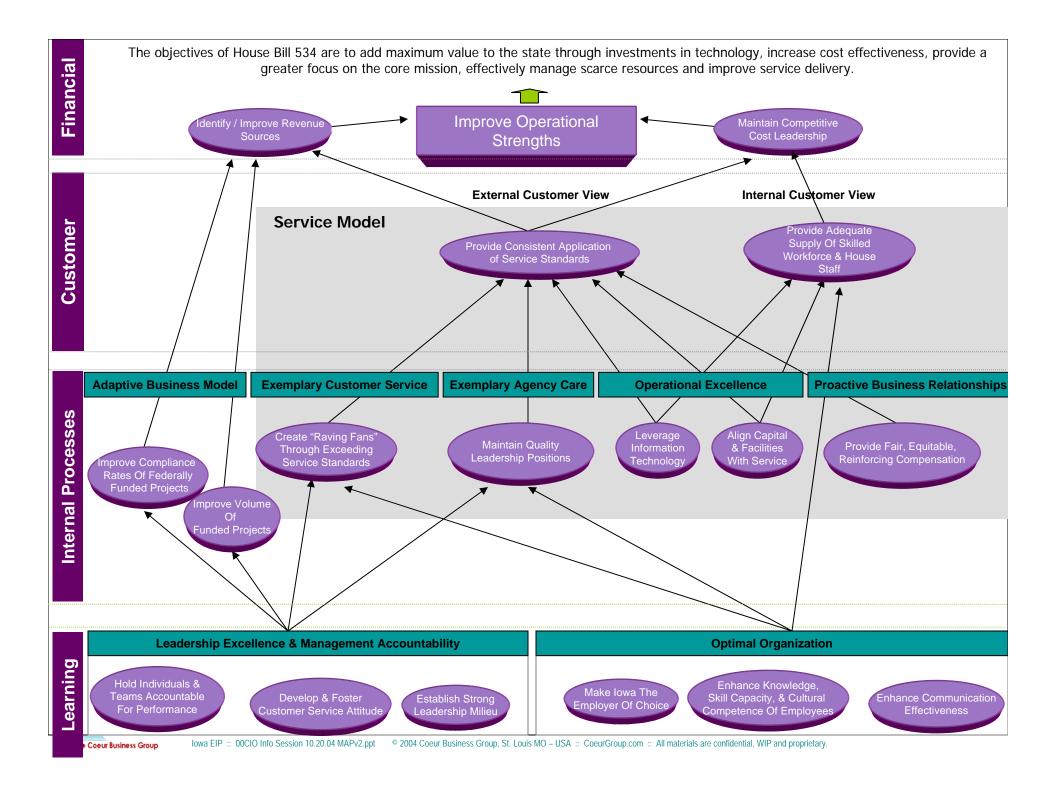
Innovation in Government – Basic Premises (David Osbourne)

- Flatten the Hierarchy
- Separate Steering From Rowing
 - Policy decision from Delivery decisions
- 3 Keys to Steering Organizations
 - Set policy
 - Deliver funds to operational bodies (public/private)
 - Evaluate Performance (what get's measured get's done)
- Mission Driven vs. Rules Driven (agile, high moral)
 - Critical Success Factors
 - 6 Majors Business Drivers
 - 8 Gaps to close

"Never tell people how to do things, tell them What you want them to achieve and they will surprise you with their ingenuity"

General George S. Patton





Enterprise Investment Governance **Board**

Steering/Rowing

Rowing/Build/Buy

Architecture Review Board

Statewide CIO

Large Department CIO

Client

Services

Medium Cluster CIO

Relationship Management

Business Solutions Enterprise

Regulatory

Create IT Value

View

Small Cluster CIO

IT Finance & Admin

Project Accounting Office IT Finance/CFO Revenue Accounting **Human Capital Management Business Acumen & Learning** Career Development

Chief **Technology** Officer

Architecture Strategy Innovative Technology **Tectonics** Architecture Audit

Chief Security Officer

Sourcing Services

E-Government

New Solutions

E-Enablement

Iowan Portal

Constituent services

Intranet Evolution

Internet Evolution

E-Forms

Customer

Cust Rel Mgr User Requirements Relationship Mngrs Help Desk &

Support

End User Support

Enterprise Portfolio Mgt Office

Business Case Mgt Portfolio Mat **Project Office New Project Requests**

> Project Management Office

Proj Mgt Certifications Project Assignments Project Management

Governance and Review

External Service Provider

Architecture/Infrastructure

Centralized IT

Departmental

Applications

Network Applic Web **Business Development** Applic Support AD&M Data Base Mgt Data Base Support

New Solutions

Planning & Architecture

IT Strategy Performance Measures Score Cards Architecture Strategy Architecture Std's **Domain Management**

Data Web Collaborative Etc.

Infrastructure

Manager Operations Security **Tech Support** Network LAN Services Servers Storage

Operating Sys Data Mgt and Warehousing E-Delivery Process QA

Manager Data Centers Operations

Storage

Sourcing & Vendor Mat.

Sourcing Strategy Vendor Mgt & contracting Procurement Process **Contract Management** Consulting Regional Products

Data Center Ops

Servers Operating Sys

ICN Common Carrier

Network Operations Telecomm

Voice Video Data Convergence

Department Director

Coeur Business Group

Department Director

Department Director

Department Director

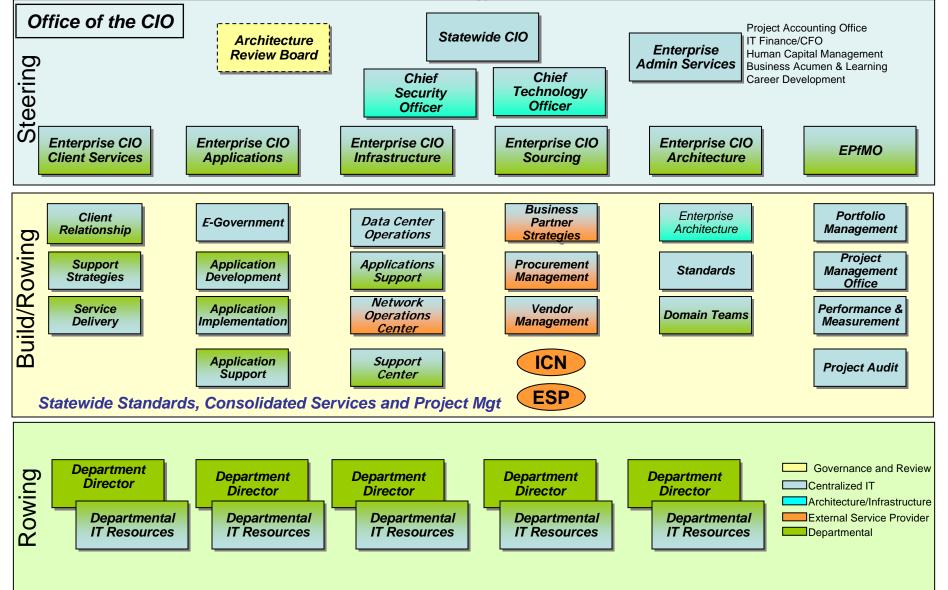
Department Director

Department Director

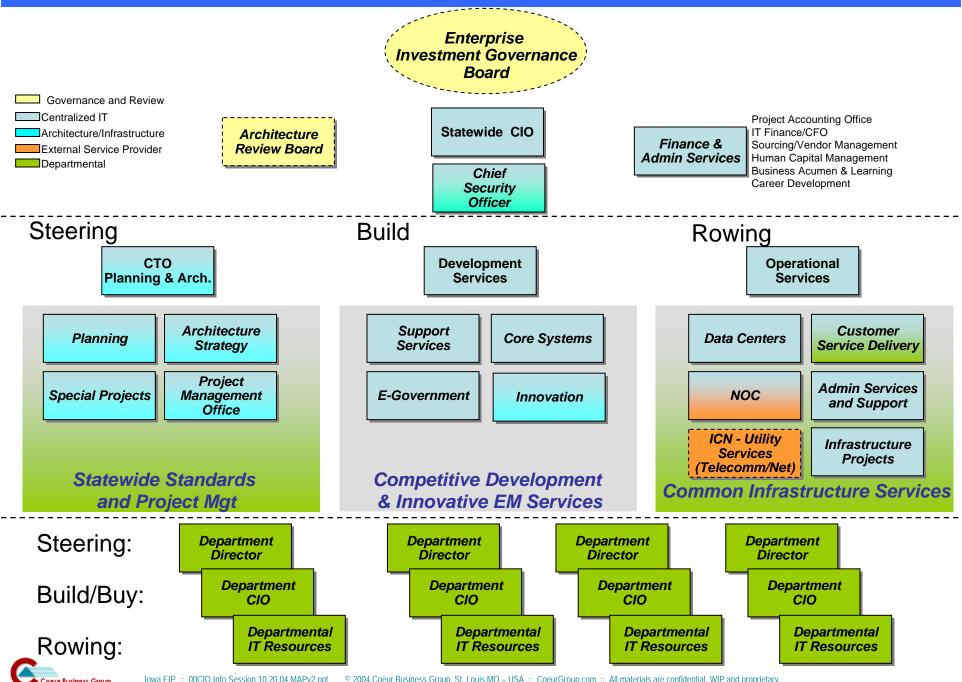
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Enterprise Investment Governance **Board** Statewide CIO **Enterprise** Admin Services Chief Chief **Technology** Security Officer Officer



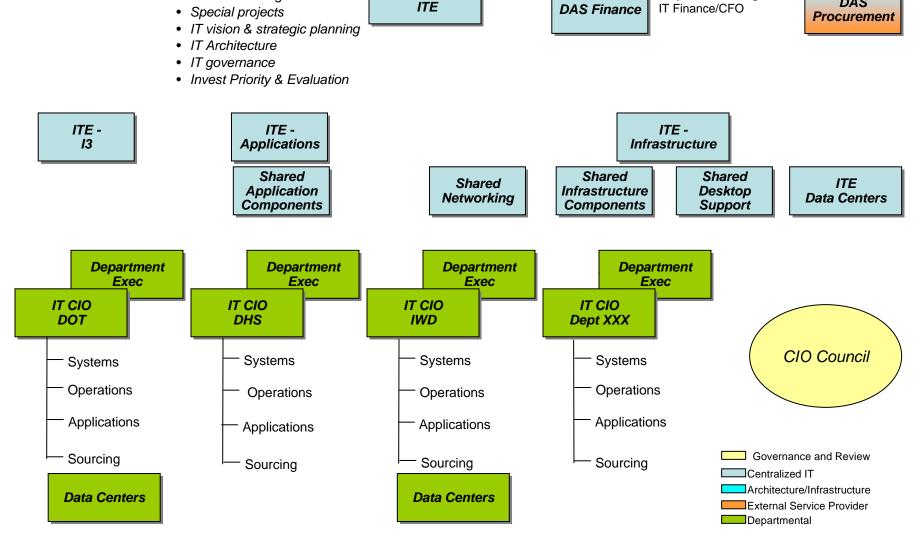
Alternative 3: Federated / Shared Services



Current DAS/ITE and Departmental:

Standard-setting

• Process management



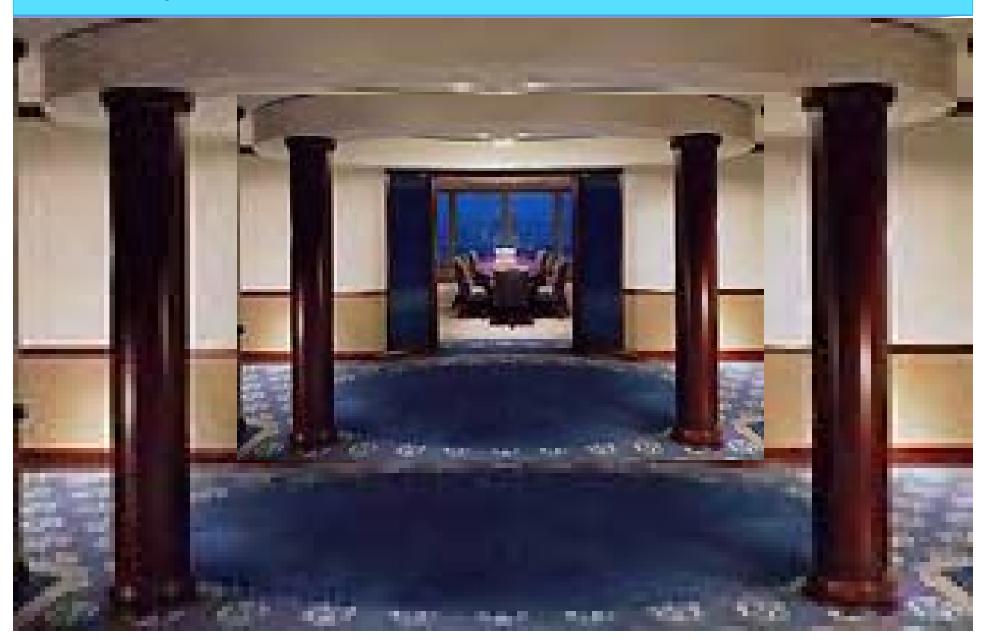
DAS COO

Project Accounting Office

DAS



Next Steps



Next Steps

- Review notes and provide feedback as soon as possible
- Coeur Group will provide information presentations to;
 - CIO Council on October 20th
 - AFSCME on October 20th
- Incorporate updates into Coeur Group final recommendations
- Provide Final Review to EIP Steering Committee on November 5th
- Final presentation for Legislators

